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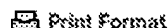
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Title

A protection method against unauthorized access and/or **address** spoofing for open network access systems.

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Ishibashi-H; Yamai-N; Abe-K; Ohnishi-K; Matsuura-T.

Author affiliation

Media Center, Osaka City Univ, Japan.

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Abstract

Personal computers are becoming much smaller and easier to carry about. LAN sockets providing network accessibility for these mobile computers are often placed in public places such as libraries, computer centers, and so on. However, it is difficult to prevent illegal access to networks in such cases. In this paper, we propose a protection method to cope with illegal access. Our method provides the following functions: (1) only valid users can access to the network, (2) preventing malicious users from invalid use of the network by IP and/or **MAC address** spoofing, and (3) no need for pre-registration of IP and/or **MAC** addresses. We have implemented this method as a system named LANA. The design and implementation of LANA are also discussed. (12 refs).

Descriptors

authorisation; computer-network-management; local-area-networks;
mobile-computing; open-systems.

Keywords

unauthorized access protection; **address** spoofing protection; open network access systems; personal

computers; LAN sockets; network accessibility; illegal network access; valid users; malicious users; IP address spoofing; **MAC address** spoofing; LANs; mobile computers.

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